PhytoTechnology Laboratories®



"Helping To Build A Better Tomorrow Through Plant Science"™

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Product Information Sheet

G500 Gibberellic Acid

GA₃; Gibberellin A₃ Synonym:

CAS: 77-06-5 Formula: $C_{19}H_{22}O_6$ Molecular Wt: 346.41

Properties

Form: Powder

Appearance:

Application:

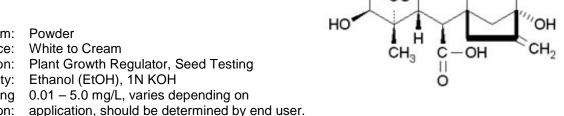
Solubility:

Typical Working

Concentration:

Storage Temp: 2 to 6° C

Other Notes: Plant Tissue Culture Tested; For Research Use Only



Application Notes

Gibberellins are known to promote shoot (internode) elongation and break certain dormancies in seeds. They also can induce flowering in some plant species.²

According to the CFIA (Canadian Food Inspection Agency), gibberellic acid can be used in a concentration range from 0.02-0.10% to break seed dormancy. The CFIA (2011) recommends that if a concentration of 0.08% or higher is to be used, the gibberellic acid should be dissolved in a phosphate buffer consisting of the following per liter of water:

1.78 g of Na2HPO4•2H2O or 2.68 g of Na2HPO4•7H2O (Prod. # S745)

1.38 g of NaH2PO4•H2O (Prod # S515)

It has been reported that low concentrations of GAs (0.01-5.0 mg/L) have been shown to promote shoot development in tobacco callus, while higher concentrations (5.0 mg/L to 10 mg/L) inhibit shoot production.⁴

PhytoTechnology Laboratories® also carries Gibberellic Acid Solution at 13 mg/mL (Prod. No. G362), Gibberellic Acid Solution at 1 mg/mL (Prod. No. G198), and Gibberellins A₄+A₇ (Prod. No. G358).

Please Note: Gibberellins can be co-autoclaved with media components; however, some loss of activity may occur. While *Phyto*Technology Laboratories[™] tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References

- 1. Merck **13**, 4430
- 2. Harada H. and J. P. Nitsch (1959) Flower Induction in Japanese Chrysanthemums with Gibberellic Acid. Science, New Series 129;335, pp. 777-778.
- 3. Canadian Food Inspection Agency (2011) Canadian Methods and Procedures for Testing Seed. www.aosaseed.com/docs/Canadian_M&P_2011.pdf
- 4. Murashige, T (1961) Suppression of Shoot Formation in Cultured Tobacco Cells by Gibberellic Acid. Science, New Series, 134:3474, pp. 280.

PhytoTechnology Laboratories®

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